

FortiSwitch 424E Series

FS-424E, FS-424E-Fiber, FS-424E-POE, FS-424E-FPOE

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<https://support.fortinet.com>

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Phone: 1 408 486 7899

Fax: 1 408 235 7737

Email: register@fortinet.com



December 10, 2019

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- New product features
- Protection from new threats

Vous devez enregistrer le produit pour recevoir:

- Support technique
- Nouvelles fonctionnalités du produit
- Protection contre de nouvelles menaces

La reistrazione ti permette di usufruire di:

- Supporto Tecnico
- Nuove funzionalità
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- Nuevas funcionalidades del producto
- Protección contra ataques

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テクニカルサポート・新機能の追加・新しい脅威への防御

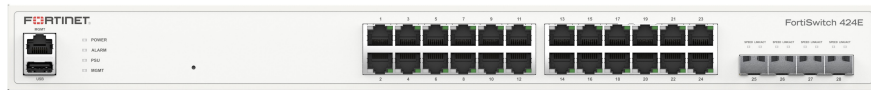
请马上注册

您的飞塔产品

您在注册以后才能得到技术支持、新产品特点信息、最新威胁防护

Box Includes

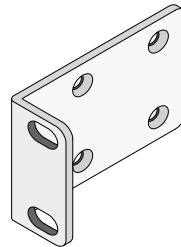
Port Guide



FortiSwitch 424E Series Device



QuickStart Guide



2 x Rack-Mount Brackets



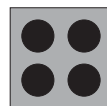
2 x Power Cables



8 x Bracket Screws

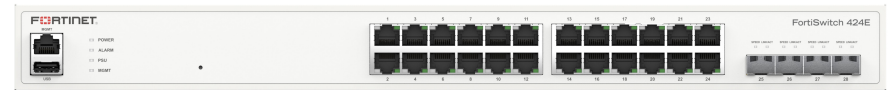


Console Cable



4 x Rubber Feet

FortiSwitch 424E



MGMT (RJ-45)

Client port for management
Default IP address is 192.168.1.99

USB (USB A)

USB 2.0 Port

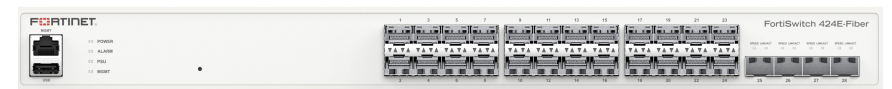
Ethernet Ports 1 to 24 (RJ-45)

Gigabit Ethernet Ports

Ports 25 to 28 (SFP+)

10Gbps SFP+ Ports

FortiSwitch 424E-Fiber



MGMT (RJ-45)

Client port for management
Default IP address is 192.168.1.99

USB (USB A)

USB 2.0 Port

Ports 1 to 24 (SFP)

1Gbps SFP Ports

Ports 25 to 28 (SFP+)

10Gbps SFP+ Ports

FortiSwitch 424E-POE / 424E-FPOE



MGMT (RJ-45)

Client port for management
Default IP address is 192.168.1.99

USB (USB A)

USB 2.0 Port

Ethernet Ports 1 to 24 (RJ-45)

Gigabit Ethernet ports with smart Power over Ethernet (PoE) providing up to a maximum of 250W (POE) or 421W (FPOE)

Ports 25 to 28 (SFP+)

10Gbps SFP+ Ports

FortiSwitch 424E



Console (RJ-45)

Optional connection to the management computer. Provides access to the CLI.

Redundant Power Supplies

100-240V AC, 0.7A, 50/60Hz

FortiSwitch 424E - Fiber



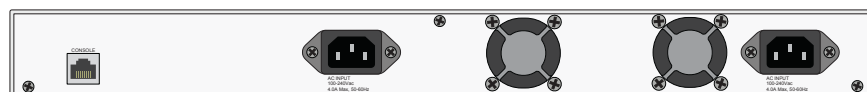
Console (RJ-45)

Optional connection to the management computer. Provides access to the CLI.

Redundant Power Supplies

100-240V AC, 1.5A, 50/60Hz

FortiSwitch 424E - POE



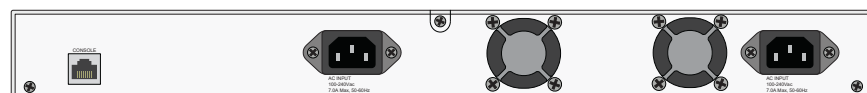
Console (RJ-45)

Optional connection to the management computer. Provides access to the CLI.

Redundant Power Supplies

100-240V AC, 4.0A, 50/60Hz

FortiSwitch 424E - FPOE

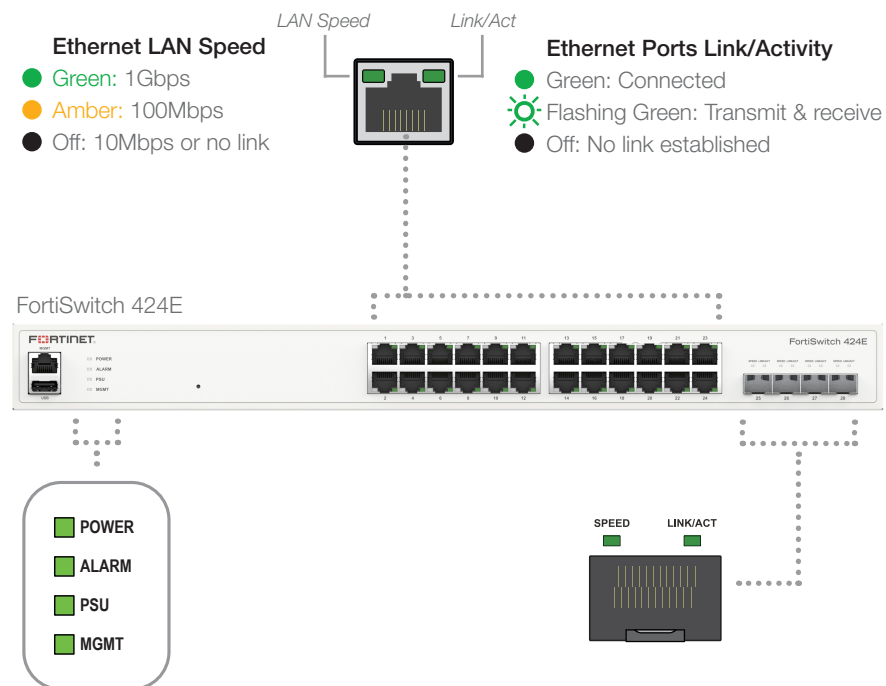


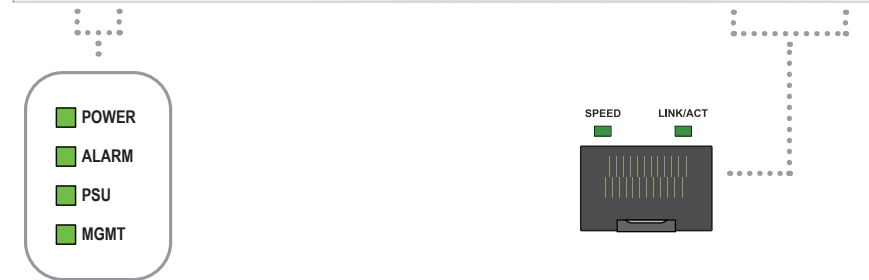
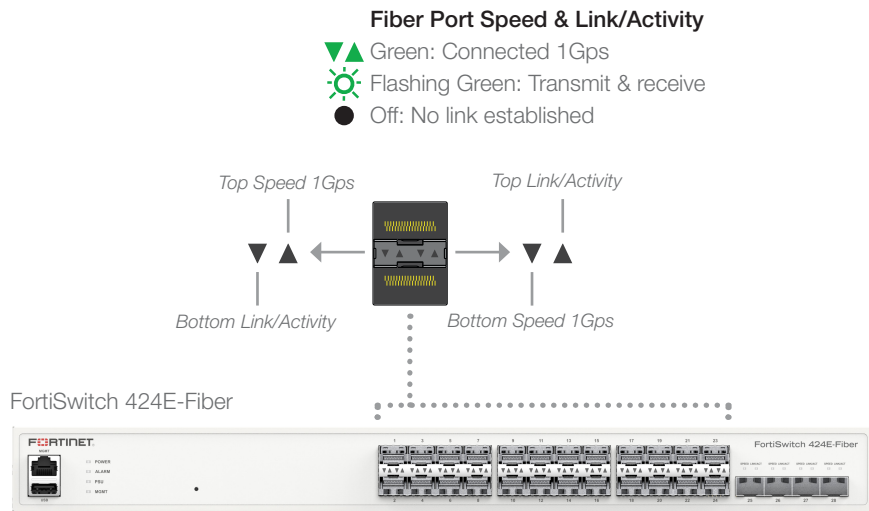
Console (RJ-45)

Optional connection to the management computer. Provides access to the CLI.

Redundant Power Supplies

100-240V AC, 7.0A, 50/60Hz





Power

- Green: The unit is on
- Off: The unit is off

Alarm

- Amber: The unit has a fault
- Off: No faults detected

PSU

- Amber: One of the PSU's have no power
- Off: Both internal PSU's have power

MGMT

- Green: Connected
- ⚡ Flashing Green: Transmitting & receiving data
- Off: No link established

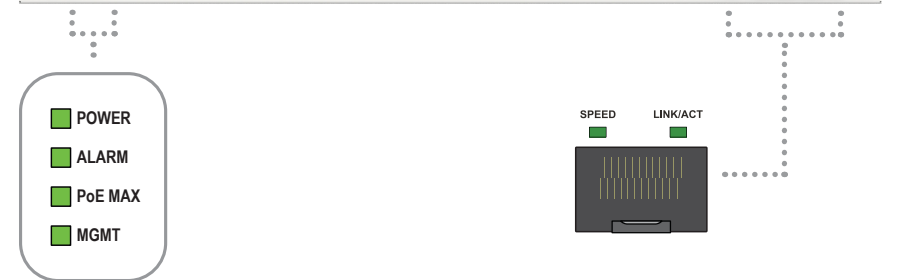
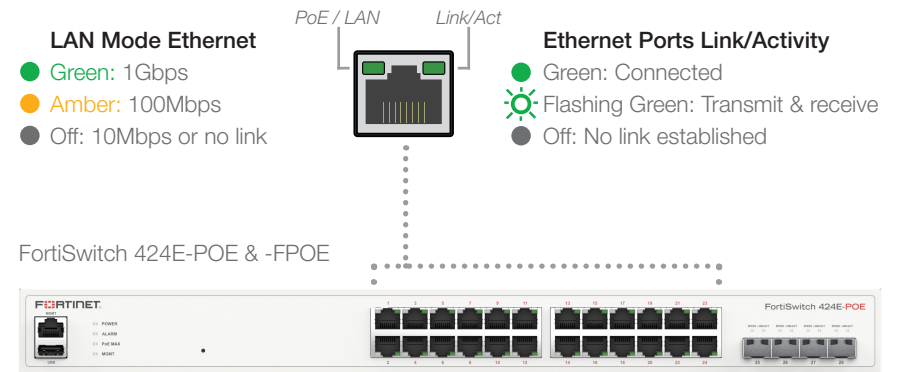
SFP+ Ports Link/Activity

- Green: Connected
- ⚡ Flashing Green: Transmit & receive
- Off: No link established

SFP+ Ports Speed

- Green: 10Gbps
- Amber: 1Gbps

- PoE Ports Power**
- Amber: Providing power
 - Off: Not providing power



Power

- Green: The unit is on
- Off: The unit is off

Alarm

- Amber: The unit has a fault
- Off: No faults detected

PoE MAX

- Amber: Max output power budget reached
- Off: PoE power available

MGMT

- Green: Connected
- ⚡ Flashing Green: Transmitting & receiving data
- Off: No link established

SFP+ Ports Link/Activity

- Green: Connected
- ⚡ Flashing Green: Transmit & receive
- Off: No link established

SFP+ Ports Speed

- Green: 10Gbps
- Amber: 1Gbps

Device Installation

Installation

The FortiSwitch unit can be placed on any [flat surface](#), or mounted in any standard [19 inch rack](#) unit with the provided rack-mount brackets and screws.

Please read "Cautions and Warnings" prior to installing your device.

Caution:

Electrostatic discharge (ESD) can damage your Fortinet equipment.

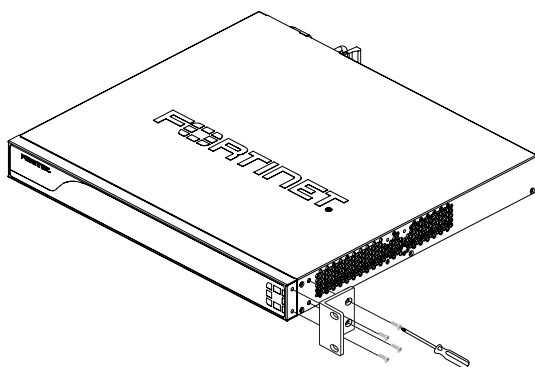
Do not place heavy objects on the unit.

To avoid personal injury or damage to the unit, it is recommended that two or more people install the unit into the rack.

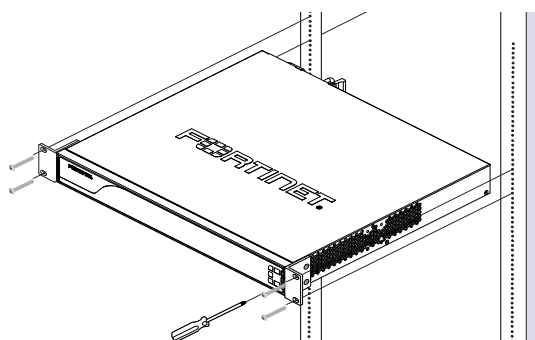
Note: If the unit has a redundant power supply, each power cable should be connected to a different power source. In this way, if one power source fails, the other may still be operational and the unit will not lose power.

To install the FortiSwitch unit into a rack

1. Ensure that the FortiSwitch unit is placed on a stable surface prior to [rack-mount](#) installation.
2. Attach the provided [rack-mount brackets](#) to the sides of the unit using the provided [bracket screws](#).



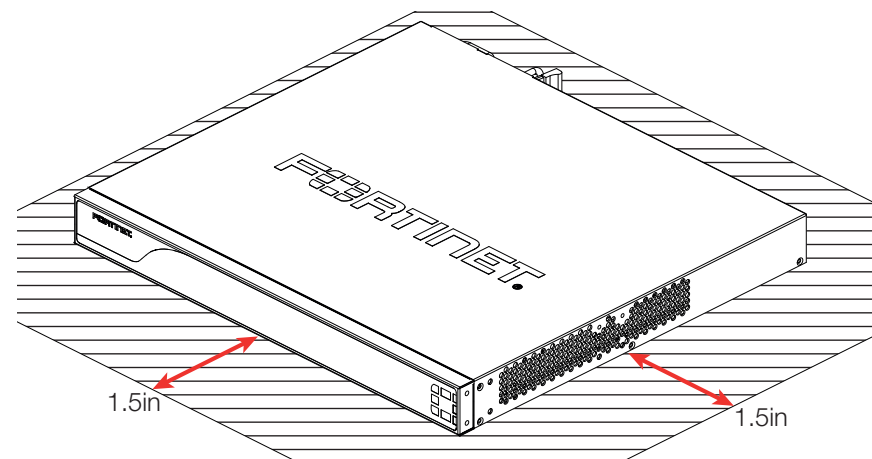
3. Position the FortiSwitch unit in the [rack](#). Ensure there is enough room around the unit to allow for sufficient air flow.



4. Line up the [rack-mount bracket holes](#) to the [holes on the rack](#) and ensure that the FortiSwitch unit is [level](#).
5. Finger tighten [four rack-mount screws](#) to attach the unit to the [rack](#).
6. Verify that the spacing around the FortiSwitch unit conforms to requirements and that the unit is [level](#), then tighten the [rack-mount screws](#) with an appropriate [screwdriver](#).
7. Plug the provided [power cable](#) into the rear of the unit, and then into a [grounded electrical outlet](#) or a separate power source such as an [uninterruptible power supply \(UPS\)](#) or a [power distribution unit \(PDU\)](#).

To install the unit on a flat surface

1. Ensure that the surface onto which the FortiSwitch unit to be installed is clean, level, and stable and that there is at least [1.5in \(3.8cm\)](#) of clearance on all sides to allow for adequate airflow.
2. Attach the provided [rubber feet](#) to the bottom of the FortiSwitch unit.



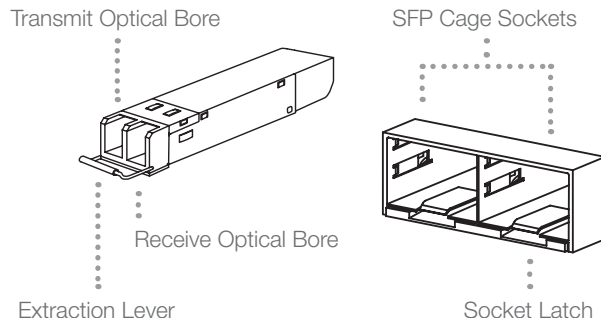
3. Place the unit in the designated location.
4. Verify that the spacing around the FortiSwitch unit conforms to requirements and that the unit is [level](#).
5. Plug the provided [power cable](#) into the rear of the unit, and then into a [grounded electrical outlet](#) or a separate power source such as an [uninterruptible power supply \(UPS\)](#) or a [power distribution unit \(PDU\)](#).

SFP Transceivers

Caution: SFP transceivers are static sensitive devices. Use an ESD wrist strap or similar grounding device when handling transceivers.

Do not install or remove SFP transceivers while fiber-optic cables are still attached. This can cause damage to the cables, cable connectors, and the optical interfaces. It may also prevent the transceiver from latching correctly into the socket connector.

Note: Installing and removing SFP transceivers can shorten their useful life. Do not install or remove transceivers more than is necessary.

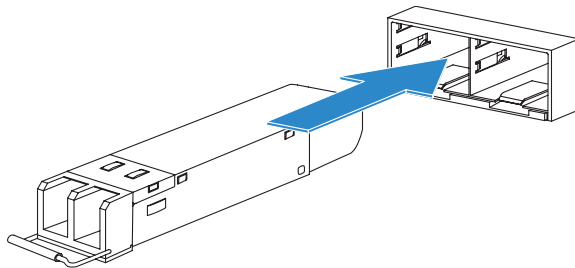


To install the SFP transceivers

1. Ensure that you are properly grounded.
2. Remove the **caps** from the **SFP cage sockets** on the front panel of the unit.
3. Position the **SFP transceiver** in front of the **cage socket opening** and ensure that the transceiver is correctly oriented. When the **transceiver** is correctly oriented, the **extraction lever** will be level with the **socket latch**.

Note: SFP cage socket orientation may vary. Ensure that the SFP transceiver module is correctly oriented each time that you are inserting a transceiver.

4. Hold the sides of the **SFP transceiver** and slide it into the **cage socket** until it clicks into place.

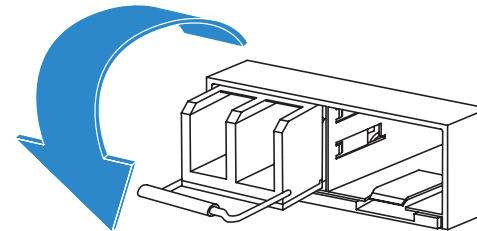


5. Press the **transceiver** firmly into the **cage socket** with your thumb.

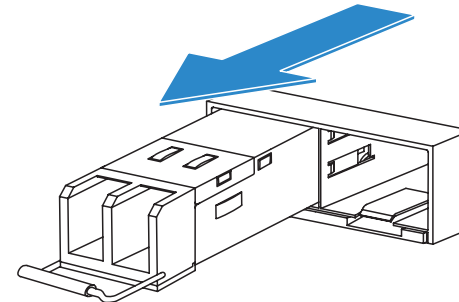
6. Verify that the **transceiver** is latched correctly by grasping the sides of the **transceiver** and trying to pull it out without lowering the **extraction lever**. If the **transceiver** cannot be removed, it is installed and latched correctly. If the **transceiver** can be removed, reinsert it and press harder with your thumb. If necessary, repeat this process until the **transceiver** is securely latched into the **cage socket**.

To remove the SFP transceivers

1. Ensure that you are properly grounded.
2. If applicable, disconnect the **fiber-optic cable** from the **transceiver connector** and install a clean **dust plug** in the **transceiver's optical bores**.
3. Pull the **extraction lever** out and down to eject the **transceiver**. If you are unable to use your finger to open the **lever**, use a **small flat-head screwdriver** or other similar tool to open the **lever**.
4. Hold the sides of the **transceiver** and carefully pull it away from the **cage socket**.



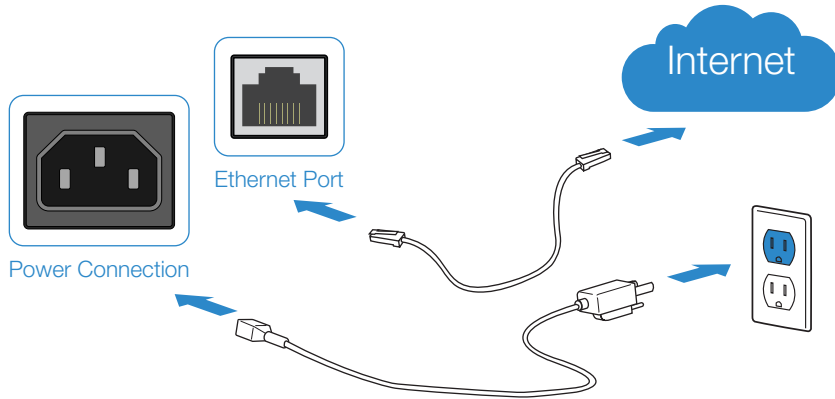
5. Replace the **cap** on the **SFP cage socket** and place the removed **SFP transceiver** into an **antistatic bag**.



Caution: Do not force the SFP transceivers into the cage slots. If the transceiver does not easily slide in and click into place, it may not be aligned correctly or may be upside down. If this happens, remove the SFP transceiver, realign it or rotate it and slide it in again.

Note: Follow proper fiber-optic handling procedures when installing and removing SFP transceivers to ensure the devices remain clean and are not damaged.

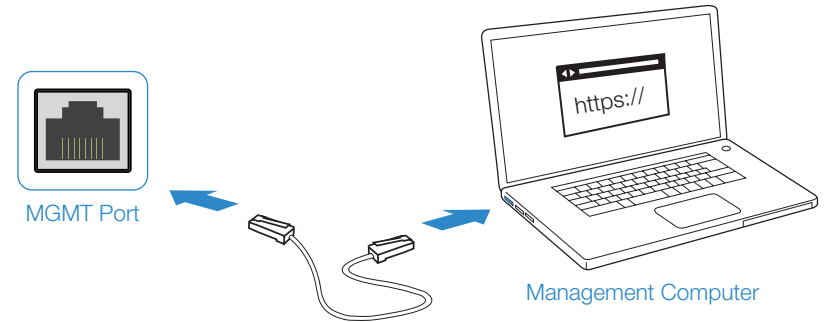
Internet Connection



Connect your device to a [power outlet](#) and an [Internet connection](#). This is usually a modem, but could also be another device on your network.

Note: If the unit has a redundant power supply, each power cable should be connected to a different power source. In this way, if one power source fails, the other may still be operational and the unit will not lose power.

Web Browser with Ethernet cable



GUI

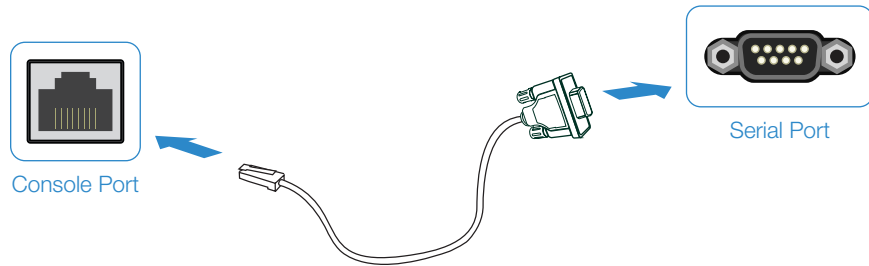
1. Connect an [Ethernet cable](#) to the [MGMT port](#) and management computer
2. Configure the management computer to be on the same [subnet](#) as the internal interface as the FortiSwitch unit:

IP address: 192.168.1.XXX

Netmask: 255.255.255.0

3. Visit <https://192.168.1.99> in your web browser.
4. Login using username "[admin](#)" and [no password](#).
5. [Configure your device](#) and save your settings.
6. [Register your device](#) from the dashboard page.

Terminal with Console Cable



To Connect to the CLI

1. Connect the device's **console port** to the management computer using the provided **console cable**.
2. Start a **terminal emulation program** on the management computer, select the **COM port**, and use the following settings:

Baud Rate: 115200
Data bits: 8
Parity: None
Stop bits: 1
Flow Control: None

3. Press **Enter** on your keyboard to **connect to the CLI**.
4. Login using username **"admin"** and no password.

Get started by typing **"?"** for a list of available **commands**.

Begin typing a command then type **"?"** for a list of available ways to complete.
For example **"config ?"** will show the lowest level of configuration options.

Cautions and Warnings

Environmental Specifications

Ambient operating temperature: 0°C to 45°C

Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude)

Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).

Safety

Caution: This equipment is to be used in a Network Environment 0 per IECTR 62101. This product is connected only to PoE networks without routing to the outside plant.

Attention: Ce matériel doit être utilisé dans un Environnement Réseau 0 par IECTR 62101. Ce produit est uniquement connecté aux réseaux PoE sans installation externe de routage.

Regulatory Notices

Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

WARNING: Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

CAN ICES-3 (A) / NMB-3 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

European Conformity (CE) - EU

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



Voluntary Control Council for Interference (VCCI) – Japan

この装置は、クラスA 機器です。この装置を住宅環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

VCCI-A

Product Safety Electrical Appliance & Material (PSE) – Japan

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Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

The presence conditions of the restricted substance (BSMI RoHS table) are available at the link below:

限用物質含有情況表 (RoHS Table) 請到以下 網址下載:

<https://www.fortinet.com/bsmi>

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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